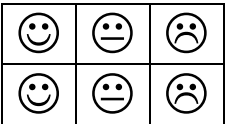
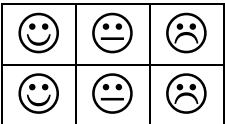


STATISTICS

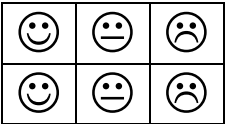
A: I can interpret graphs, charts and tables.



B: I can draw and interpret pie charts.

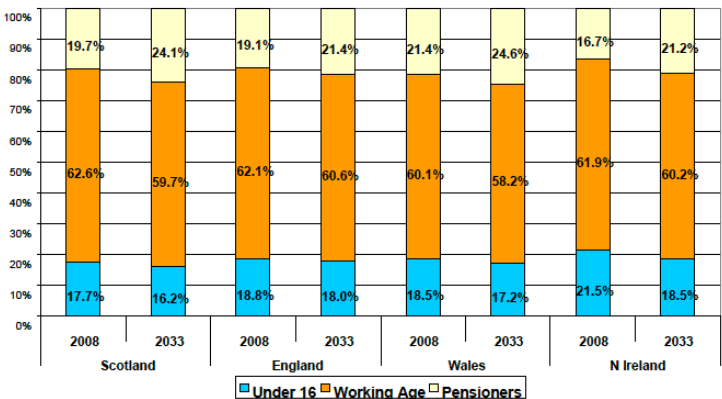


C: I can construct and interpret scatter graphs.



What information can you get from this graph?

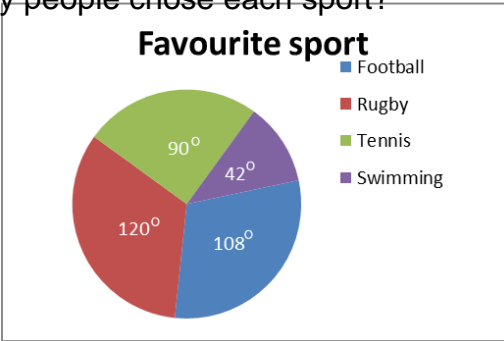
Projected population structure in the UK



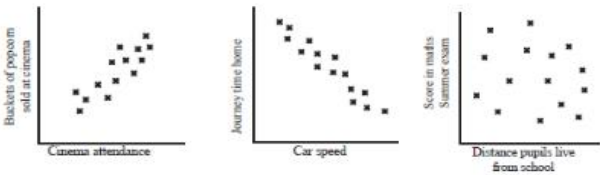
120 children were asked their favourite flavour of ice cream. The results are shown in the table. Show this information in a pie chart.

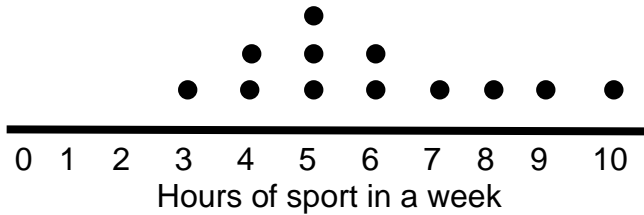
Flavour	No. of pupils
Strawberry	22
Raspberry	17
Chocolate	46
Vanilla	35

2880 people were asked to name their favourite sport. The results are shown in the pie chart below. How many people chose each sport?



What does each graph below show? Describe the correlation.



<p>C: I can construct and interpret scatter graphs.(cont.)</p>		<p>The table shows braking distances of a car.</p> <table><tr><td>Speed (mph)</td><td>36</td><td>29</td><td>41</td><td>43</td><td>60</td><td>50</td><td>55</td><td>33</td><td>43</td></tr><tr><td>Stopping distance (m)</td><td>35</td><td>21</td><td>82</td><td>54</td><td>91</td><td>59</td><td>80</td><td>25</td><td>54</td></tr></table> <p>Plot this information on a scatter graph. Comment on the correlation. If the stopping distance is 85m give an estimation of the speed the car was travelling at.</p>	Speed (mph)	36	29	41	43	60	50	55	33	43	Stopping distance (m)	35	21	82	54	91	59	80	25	54
Speed (mph)	36	29	41	43	60	50	55	33	43													
Stopping distance (m)	35	21	82	54	91	59	80	25	54													
<p>D: I can calculate and interpret averages; mean, median and mode.</p>	<table><tr><td>😊</td><td>😐</td><td>😞</td></tr><tr><td>😊</td><td>😐</td><td>😞</td></tr></table>	😊	😐	😞	😊	😐	😞	<p>The heights of 10 children are shown (in cm) 132, 147, 143, 136, 135, 146, 153, 132, 137, 149 Find the mean, median and modal height of the children. Which average is the best one to use? Why?</p>														
😊	😐	😞																				
😊	😐	😞																				
<p>E: I can calculate and interpret the range.</p>	<table><tr><td>😊</td><td>😐</td><td>😞</td></tr><tr><td>😊</td><td>😐</td><td>😞</td></tr></table>	😊	😐	😞	😊	😐	😞	<p>Calculate the range of the height of the children. Comment on the range.</p>														
😊	😐	😞																				
😊	😐	😞																				
<p>F: I can construct and interpret dot plots.</p>	<table><tr><td>😊</td><td>😐</td><td>😞</td></tr><tr><td>😊</td><td>😐</td><td>😞</td></tr></table>	😊	😐	😞	😊	😐	😞	<p>The dot plot shows the hours of sport a group of 14 year old do in a week</p>  <p>Find the median and the range. Comment on the distribution.</p>														
😊	😐	😞																				
😊	😐	😞																				
<p>G: I can construct and interpret stem-and-leaf diagrams.</p>	<table><tr><td>😊</td><td>😐</td><td>😞</td></tr><tr><td>😊</td><td>😐</td><td>😞</td></tr></table>	😊	😐	😞	😊	😐	😞	<p>S3 pupils were asked how many minutes they spent to complete their maths homework. The results are 42, 30, 12, 14, 30, 22, 21, 43, 51, 39, 25, 28, 27, 29, 15, 32, 33, 17, 11, 50, 37, 22, 37, 43</p> <p>Construct a stem-and-leaf diagram for this data, showing a key. Find the mode, median and range for the data.</p>														
😊	😐	😞																				
😊	😐	😞																				